

STATE BOARD OF HEALTH
INDIANAPOLIS*State Co.
Gary Land Development
II cld*OFFICE MEMORANDUM

TO: Stuart C. Miller
Facility Inspection Section-North

FROM: Richard T. Jones *RTJ 2/6/86*
Geology Section

SUBJECT: Soil Borings and Observations
at Gary Land Development, Lake County

DATE: February 6, 1986

THRU: Karyl K. Schmidt *KS 2-7*
Dan B. Magoun *DBM 2/10*

On December 16, 1985, Messrs. Duane Leith, Steve Schaefer, and I visited Gary Land Development. We walked the entire site and observed many leachate leaks. The west wall had several small leachate leaks which drained into a flooded ditch between Gary Land Development and Vulcan Recycling Company. The leaks occurred in the wall where proper clay thickness was in question. The responsible party, Mr. Larry Hagen, claimed to have six to ten feet of clay. However, their soil borings through the west wall indicate only two and one-half feet of clay. The soil boring conditions have not been met according to the court order. Additional information is needed concerning soil boring logs and testing results. The monitoring well on the west side was under water and needs to be raised or have the water drained away. It is not usable left as it is. (See diagram.)

Outside the north wall between the landfill and the railroad tracks is more drainage runoff which may be from the Vulcan Recycling Company, but runs onto the Gary Land Development property. This drainage may contain some chemical parameters that are toxic or above standard (as the monitoring well samples are). A drainage ditch bisects the landfill site and appears to be pumped into the Grand Calumet River. Per a phone conversation between Duane Leith and Joseph Krieger of Water Pollution Control on January 7, 1986, they do not have a permit. There is also leachate rapidly flowing into the ditch from the eastern bank. (See diagram.) I recommend leachate samples be taken around the site and from the drainage ditch which appears to have some oily film on the water.

The clay being used for the cover is removed from the drainage ditch which appears to complicate their drainage problems. Even with the best engineering plan properly executed, this site would be questionable geologically due to the shallow aquifer and poor drainage system, and the proximity to the Grand Calumet River.

RTJ/kp
cc: Ms. Pat Vogtman, U.S. EPA, Region V
Mr. Duane Leith
Mr. Steve Schaefer
bcc: Mr. John Cooper

file 0188K

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